



## **PA12CF** (Nylon 12 with 25% Carbon Fiber)

**2mm - Flexible:** Prescriber may specify the thickness in 0.1mm increments.

**3mm - Semi-flexible:** Prescriber may specify the thickness in 0.1mm increments.

**4mm - Rigid:** Prescriber may specify the thickness in 0.1mm increments to 5mm or more.

## **LENGTH** (PA12-CF Orthotics)

**Full foot:** The shell is just proximal to the met heads. A flexible extension is added to the full length of the foot.

**Sulcus / Web:** The shell is just proximal to the met heads. A soft flexible extension is added up to the sulcus so that the MTP joints are covered.

**Short (met heads):** Usually short dress. Thin orthotics to fit dress shoes.

## **HEEL CUP DEPTH**

**These are suggested values.**

Prescriber may specify any depth in 0.1mm increments from 0mm to 40mm.

## **PA12-CF ONLY** (Support and stabilization)

**Heel stabilizer size:** Describes the length of the heel stabilizer. Usually to the centre of gravity.

**Heel lift (mm):** Shell is printed with the heel lift incorporated into the orthotic (not glued on).

**Forefoot post size:** Describes the length of it distal to proximal.

**Arch support bars:** Describe the number of bar(s). Describe the thickness and the width of the bar(s). You may specify location.

## **TPU** (Thermoplastic Polyurethane)

**Soft:** Printed **without enclosing side walls**. This makes the orthotic softer. Printed with gyroid infill at 15% density. (Gyroid pattern lattice interior visible.)

**Medium:** All side walls **are printed**. Printed with gyroid infill at 20% density.

**Hard:** All side walls **are printed**. Printed with gyroid infill at 30% density.

## **LENGTH** (TPU Orthotics)

**Long (full length):** The entire orthotic is printed out of TPU. The front part is about 1mm thick extending to the full foot. Prescriber selects the cushioning and/or covering material.

**Sulcus / Web:** The TPU shell can be printed to cover the MTP joints to the desired thickness or posting (i.e. firm 1-5pmp). The toes part is soft cushioning material and cover material.

**Short (met heads):** The shell is printed out of TPU. There is no extension, only the TPU shell is covered with your specified material.

## **STYLE**

**Sport:** Plastic or polyurethane shell. Heel stabilizer on plastic. 2 or 3 mm cushion and top cover (vinyl, etc).

**Dress:** Short orthotics. Plastic shell without cushion. May have flexible extension to web.

**Cobra:** The thinnest orthotic we offer, without any thickness under the heel. Moderate arch support. May be extended to web with flexible material.

## **ADDITIONS**

**Metatarsal pads:** Poron met pads glued on the dorsal aspect of the orthotics.

**Heel pads:** 3mm poron glued on the dorsal aspect of the orthotics into the heel area, extended just proximal to the cuboid.

**Horseshoe pads:** Same as above but with a hole to accommodate a heel spur.

**Heel lifts (added):** Hard EVA glued to the plantar aspect of the orthotics to compensate for leg length discrepancy.

**Morton's extension:** Glued on the dorsal aspect of the orthotics (3mm poron or as specified).

**Reverse Morton's:** Glued on the dorsal aspect of the orthotics (3mm poron or as specified).

**1-5 PMP:** Glued on the dorsal aspect of the orthotics. Full thickness under MTPJs.

## **STANDARD (Shortcut designs)**

**2mm:** 2mm PA12-CF shell. Medium heel stabilizer. 2mm top cover (cushion plus vinyl).

**3mm:** 3mm PA12-CF shell. Medium heel stabilizer. 3mm cushion plus a top cover.

**4mm:** 4mm PA12-CF shell. Medium heel stabilizer. 3mm top cushion plus a top cover.

## **SANDWICH (Shortcut designs)**

**Shell:** 2, 3 or 4mm PA12-CF shell.

**Top:** 2mm nyplex or 3mm nyplex.

**Bottom:** 1mm EVA or 2mm EVA

## **CUSHION**

**Spenco/ETC:** 2mm black or 3mm black.

**V-Foam:** 35DURO EVA Foam.

**Poron:** PPT 30DURO. 1, 2 or 3mm.

**Plastazote:** 25DURO. 3, 6 or 9mm.

**Nyplex:** 25DURO. 3, 6 or 6mm. Can be used without top cover.

## **TOP COVER**

**Vinyl:** Thin, usually black, more durable.

**Ultrasuede:** More flexible vinyl, black on black flex mesh.

**Vinaire:** Stronger, breathable vinyl or less flexible base mesh.

**Trinidad:** More durable, less expensive option.

**Ultrasuede:** Artificial nylon suede, resembles real suede, durable.

**Leather:** Polysealed, colour may vary.

## **SANDAL (Shortcut designs)**

**TPU:** The entire length of the orthotic is printed. The shell and thin bottom are one piece. Corrections and additions can be incorporated into the printed orthotic.

**Top:** Regular 6mm nyplex without or with a top cover (suede or leather). Patients seem to like the feel of nyplex and it is easy to clean. Can also be 3mm PPT plus 3mm plastazote for diabetic patients.

### **THIN DRESS** (Shortcut designs)

**2mm:** PA12-CF 2mm shell plus vinyl or leather.  
(Short or web length).

**3mm:** PA12-CF 3mm shell plus vinyl or leather.  
(Short or web length).

**4mm:** PA12-CF 4mm shell plus vinyl or leather.  
(Short or web length).

### **STANDARD TPU** (Shortcut designs)

**Medium:** Medium density TPU. Short shell plus 3mm top cover to full length. Some MLA flange and some MLA skive.

**Soft:** Soft density (printed without side walls). Short shell plus 3mm cushion to full length. Some MLA flange and some MLA skive.

### **DIABETIC** (Shortcut designs)

**Regular:** PA12-CF 3mm STD shell, plus 3mm PPT and 3mm plastazote.

**Thick:** Regular plus extra 3mm cushion. You may specify material.

### **P3** (Shortcut designs)

**TPU P3:** Medium density TPU. Short shell plus 3mm PPT, 1-5pmp out of 3mm PPT, met bump, plus 3mm plastazote.

**PA-CF P3:** PA12-CF 3mm STD shell, plus 3mm PPT, 1-5pmp out of 3mm PPT, met bump, plus 3mm plastazote.